For receiving Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

REQUEST			Ì
		International Filing D	ate
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.			fice and "PCT International Application"  s file reference NEB-238-PCT
Box No. I TITLE OF INVENTION COMPOSITIONS AND METHOD MUTATED RNASE III			
Box No. II APPLICANT	This person	n is also inventor	
Name and address: (Family name followed by The address must include postal code and name o Box is the applicant's State (that is, country) of res	given name; for a legal enti of country. The country of the	ity, full official designation the address indicated in thi	Telephone No.
Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  NEW ENGLAND BIOLABS, INC.			Facsimile No.
32 Tozer Road Beverly, MA 01915 US			Teleprinter No.
			Applicant's registration No. with the Office
State (that is, country) of nationality: US		State (that is, countr US	y) of residence:
This person is applicant for the purposes of:	nated X all designate the United S	d States except tates of America	the United States of America only the States indicated in the Supplemental Box
Box No. III FURTHER APPLICAT	NT(S) AND/OR (FURT	HER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation The address must include postal code and name of country. The country of the address indicated in the Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  MAINA, Claude V.  837 Main Street  West Newbury, MA 01985  US		This person is:  applicant only  X applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office	
State (that is, country) of nationality: US		State (that is, count US	ry) of residence:
This person is applicant for the purposes of:  all designment designment of the purposes are states.		ed States except States of America	the United States of America only the States indicated in the Supplemental Box
X Further applicants and/or (further)	inventors are indicated	on a continuation sheet	
Box No. IV AGENT OR COMMO	N REPRESENTATIV	E; OR ADDRESS FO	OR CORRESPONDENCE
The person identified below is hereby/ha of the applicant(s) before the competent	s been appointed to act International Authoritie	on behalf s as:	agent common representative
	given name; for a legal en postal code and name of c	tity, full official designatio country.)	n. Telephone No.
STRIMPEL, Harriet M. New England Biolabs, Inc. 32 Tozer Road  Percela MA 01015		Facsimile No.  Teleprinter No.	
Beverly, MA 01915 US		Totoprinter 110.	
			Agent's registration No. with the Office
Address for correspondence: Me space above is used instead to ind	ark this check-box wher icate a special address to	e no agent or common o which correspondence	representative is/has been appointed and the e should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
If none of the following sub-boxes is used, this sheet should not be included in the request.			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  TZERTZINIS, George 10 Worcester Street, #2  Cambridge, MA 02139  US		This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country	y) of residence:	
GR	US	´	
This person is applicant for the purposes of:  all designated the United St	d States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal enti. The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residen KUMAR, Sanjay 83 Old Right Road Ipswich, MA 01938 US	e address indicated in this	This person is:  applicant only  X applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office	
State (that is, country) of nationality: US	State (that is, country	y) of residence:	
This person is applicant for the purposes of:  all designated the United St	1 States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residen	anddwaen in dianend in etia	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country	y) of residence:	
This person is applicant for the purposes of:  all designated states all designated the United States	d States except tates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residen	anddrace indicated in this	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country	y) of residence:	
This person is applicant for the purposes of:  all designated the United States  all designated the United States	d States except tates of America	the United States of America only the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated on another continuation sheet.			

Sheet No. ...3...

Box No. V DESIGN	Box No. V DESIGNATIONS			
The filing of this request filing date, for the grant of	constitutes under Rule 4.9(a), th f every kind of protection available	e designation of all Contre e and, where applicable, fo	acting States bound by the the grant of both region	ne PCT on the international nal and national patents.
However,				
DE Germany is no	t designated for any kind of nation	nal protection		
KR Republic of Ko	orea is not designated for any kind	d of national protection		
RU Russian Federa	ation is not designated for any kin	d of national protection		
the national law, of an ed	nay be used to exclude (irrevocably urlier national application from water in these and certain other Sta	hich priority is claimed. S	ned in order to avoid the See the Notes to Box No.	ceasing of the effect, under V as to the consequences of
Box No. VI PRIO	RITY CLAIM			
The priority of the follow	ving earlier application(s) is hereb	y claimed:		
Filing date of earlier application	Number of earlier application	V	Vhere earlier application	is:
(day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item(1) 23 January 2004 (23.01.04)	60/538,805	US		
item (2) 12 February 2004 (12.02.2004)	60/543,880	US		
item (3) 18 May 2004 (18.05.2004)	60/572,240	US		
Further priority cla	ms are indicated in the Supplemen	ntal Box.		
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:    X all items   item(1)   item(2)   item(3)   other, see Supplemental Box   Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of				
Industrial Property or o	ne Member of the World Trade Or	ganization for which that	earlier application was j	filed (Rule 4.10(b)(ii)):
Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
international search, in	l Searching Authority (ISA) (if t dicate the Authority chosen; the tv	'wo or more International i vo-letter code may be used	Searching Authorities ar ):	re competent to carry out the
ISA /US			• • • • • • • • • • • • • • • • • • • •	
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):				
Date (day/month/year) Number Country (or regional Office)				
Box No. VIII DECLARATIONS				
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):  Number of declarations				
Box No. VIII (i)	Declaration as to the identi-	ty of the inventor		:
Box No. VIII (ii)  Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent:				
Box No. VIII (iii)  Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application:			· :	
Box No. VIII (iv)  Declaration of inventorship (only for the purposes of the designation of the United States of America)			:	
Box No. VIII (v)	Declaration as to non-preju	udicial disclosures or excep	ptions to lack of novelty	:

	4
Sheet No.	4
Sheet No.	-

Box No. IX CHECK LIST; LANGUAGE OF FILING			
This international application contains:  (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items	
request(including	1.		
declaration sheets) : 4	2.  original separate power of attorney	:	
description (excluding sequence listings and/or	3. X original general power of attorney	:1	
tables related thereto) : 49	4. copy of general power of attorney; reference number,		
claims : 5	if any:  5. statement explaining lack of signature		
abstract : 1 drawings : 17	6. priority document(s) identified in Box No. VI as	•	
Sub-total number of sheets: 76	item(s):	:	
sequence listings : 23	7. translation of international application into	.	
tables related thereto :	(language):  8. separate indications concerning deposited microorganism	·	
(for both, actual number of sheets if filed in paper form,	or other biological material	:	
whether or not also filed in computer readable form;	<ol> <li>sequence listings in computer readable form (indicate type and number of carriers)</li> </ol>		
see (c) below)	<ul> <li>(i) Copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)</li> </ul>	n) · 23	
Total number of sheets : 99	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column	7)	
(b) only in computer readable form (Section 801(a)(i))	additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	:	
(i) sequence listings (ii) tables related thereto	(iii)  together with relevant statement as to the identity of the copy copies with the sequence listings mentioned in left column	or : 1	
(c) also in computer readable form (Section 801(a)(ii))	10. tables in computer readable form related to sequence listings (indicate type and number of carriers)		
(i) sequence listings (ii) tables related thereto	(i) copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the internation	al	
Type and number of carriers (diskette.	application) (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column	;	
CD-ROM, CD-R or other) on which are contained the	additional copies including, where applicable, the copy for the	e l	
sequence listings:	purposes of international search under Section 802(b-quater)  (iii) together with relevant statement as to the identity of the copy	or	
tables related thereto:	copies with the tables mentioned in left column	:	
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)			
Figure of the drawings which should accompany the abstract:  3 Language of filing of the international application: Expelient			
	international application: English  T, AGENT OR COMMON REPRESENTATIVE		
Next to each signature, indicate the name of the person sign	ing and the capacity in which the person signs (if such capacity is not obvious from reading	the request).	
	- Hamet Shungel		
Harriet M. Strimpel, D.Phil., Chief Patent Counsel			
riamet w. Strimpel, D.Phil., Chief Patent Counsel			
and Assistant Clerk			
	For receiving Office use only		
1. Date of actual receipt of the purported	·	awings:	
international application:		_	
3. Corrected date of actual receipt due to later l	out	eceived:	
timely received papers or drawings completing the purported international application:			
4. Date of timely receipt of the required	П.	ot received.	
4. Date of timely receipt of the required corrections under PCT Article 11(2):			
5. International Searching Authority	6. Transmittal of search copy delayed		
(if two or more are competent): ISA/	until search fee is paid		
	For International Bureau use only		
Date of receipt of the record copy by the International Bureau:			

This sheet is not part of and does not count as a sheet of the international application.

## FEE CALCULATION SHEET

For receiving Office use only =

Annex to the Request	International Application No.	
Applicant's or agent's file reference NEB-238-PCT	Data storms of the receiving Office	
	Date stamp of the receiving Office	
Applicant NEW ENGLAND BIOLARS INC. of all		
NEW ENGLAND BIOLABS, INC., et al.		
CALCULATION OF PRESCRIBED FEES	200.00 [7]	
1. TRANSMITTAL FEE	300.00 T	
2. SEARCH FEE	1,000.00 S	
International search to be carried out by US		
(If two or more International Searching Authorities are competent to international search, indicate the name of the Authority which is cho the international search.)	carry out the osen to carry out	
3. INTERNATIONAL FILING FEE		
Where item (b) and/or (c) of Box No. IX apply, enter Sub-total num Where item (b) and (c) of Box No. IX do not apply, enter Total num	nber of sheets }	
il first 30 sheets	1,134.00 ii	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	828.00 [2]	
in excess of 30		
additional component (only if sequence listings and/or tables re thereto are filed in computer readable form under Section 801(a or both in that form and on paper, under Section 801(a)(ii)):	lated s)(i),	
	<b>i</b>	
400 x =	113	
Add amounts entered at i1, i2 and i3 and enter total at I		
(Applicants from certain States are entitled to a reduction of 75% of the		
international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)		
	M-10	
4. FEE FOR PRIORITY DOCUMENT (if applicable)	60.00 P	
5. TOTAL FEES PAYABLE	USD 3,322.00	
Add amounts entered at T, S, I and P, and enter total in the TOTAL		
MODE OF PAYMENT    authorization to charge		
authorization to charge postal money order postal money order	cash coupons	
X cheque bank draft	revenue stamps other (specify):	
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACC (This mode of payment may not be available at all receiving Offices)	OUNT Receiving Office: RO/	
	Deposit Account No.: 14-0740	
Authorization to charge the total fees indicated above.  (This check-box may be marked only if the conditions for deposit according to the conditions of the conditions of the conditions for deposit according to the conditions of the conditions for deposit according to the conditions for deposit according to the conditions of the condi		
of the receiving Office so permit) Authorization to charge any deficie	ncv	
or credit any overpayment in the total fees indicated above.	Name: Harriet M. Strimpel, D.Phil.	
Authorization to charge the fee for priority document.	Signature: # ( Mingel	